

# METHOD OF CONVERSION OF MOTION IN POSITIVE-DISPLACEMENT MACHINE AND POSITIVE-DISPLACEMENT MACHINE FOR REALIZATION OF THIS METHOD

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Classification:

- international: **F04C2/00; F04C2/00; (IPC1-7): F04C2/00**

- European:

Application number: RU19980109084 19980513

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## Abstract of RU2140018

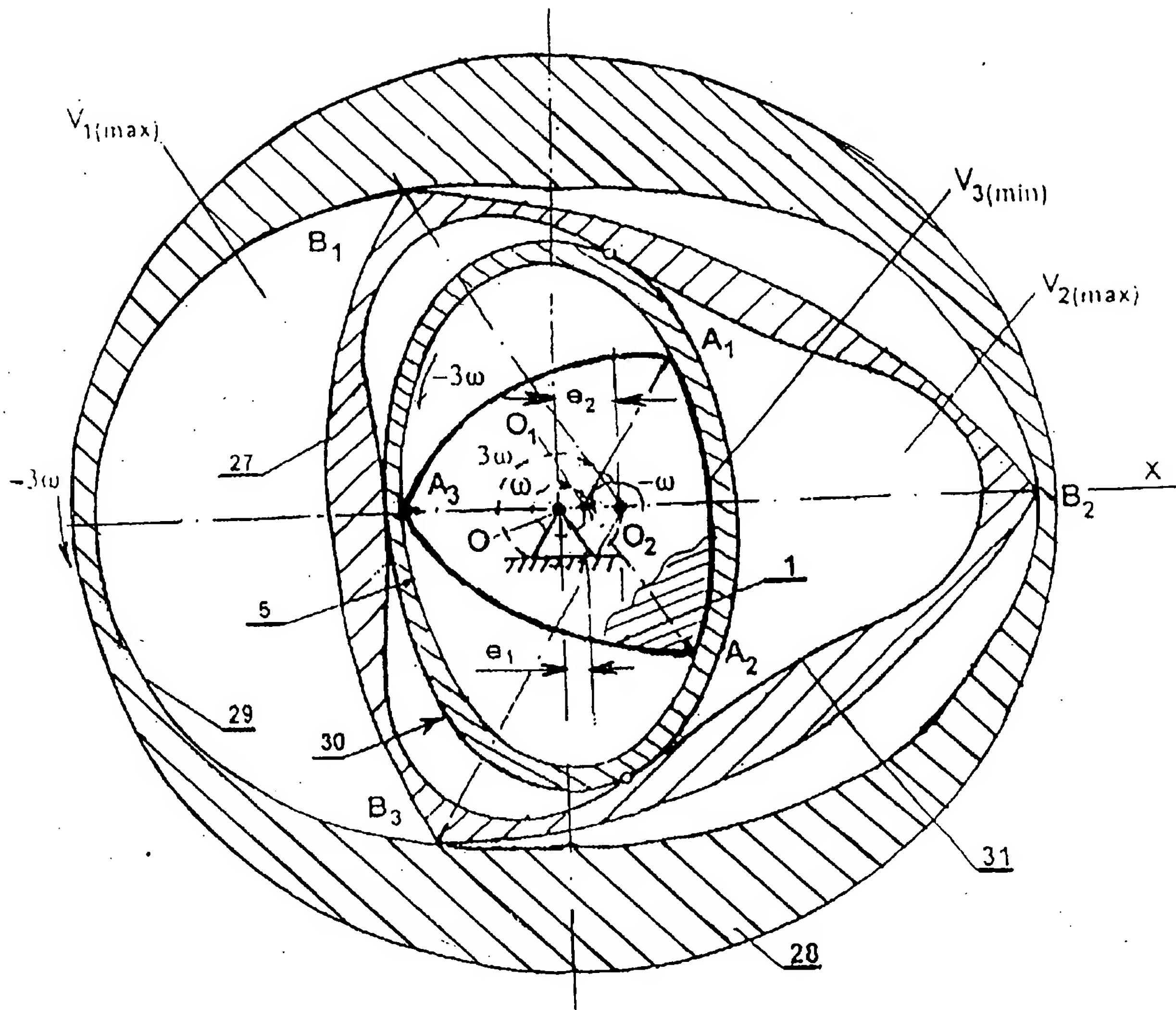
FIELD: manufacture of reduction gears, engines, compressors, pumps, internal combustion engines.

SUBSTANCE: method consists in differential rotations of engageable members around their axes and synchronizing linkage member; both rotations are independent; angular rates of rotations are determined from definite relationship. Simultaneously with rotation of engageable members about their axes, planetary rotation of any of engageable member about axis of other member is performed; angular rates of rotations of engageable members are also selected from definite relationship. Specific feature of positive-displacement machine is position of synchronizer mounted in housing for rotation about main axis; at least one engageable member and synchronizer or least two engageable members are linked forming kinematic chain for synchronization of rotations of both engageable members about their axes or rotation of one of engageable member about its axis and rotation of axis of engageable member performing planetary rotation about main axis in accordance with definite relationship.

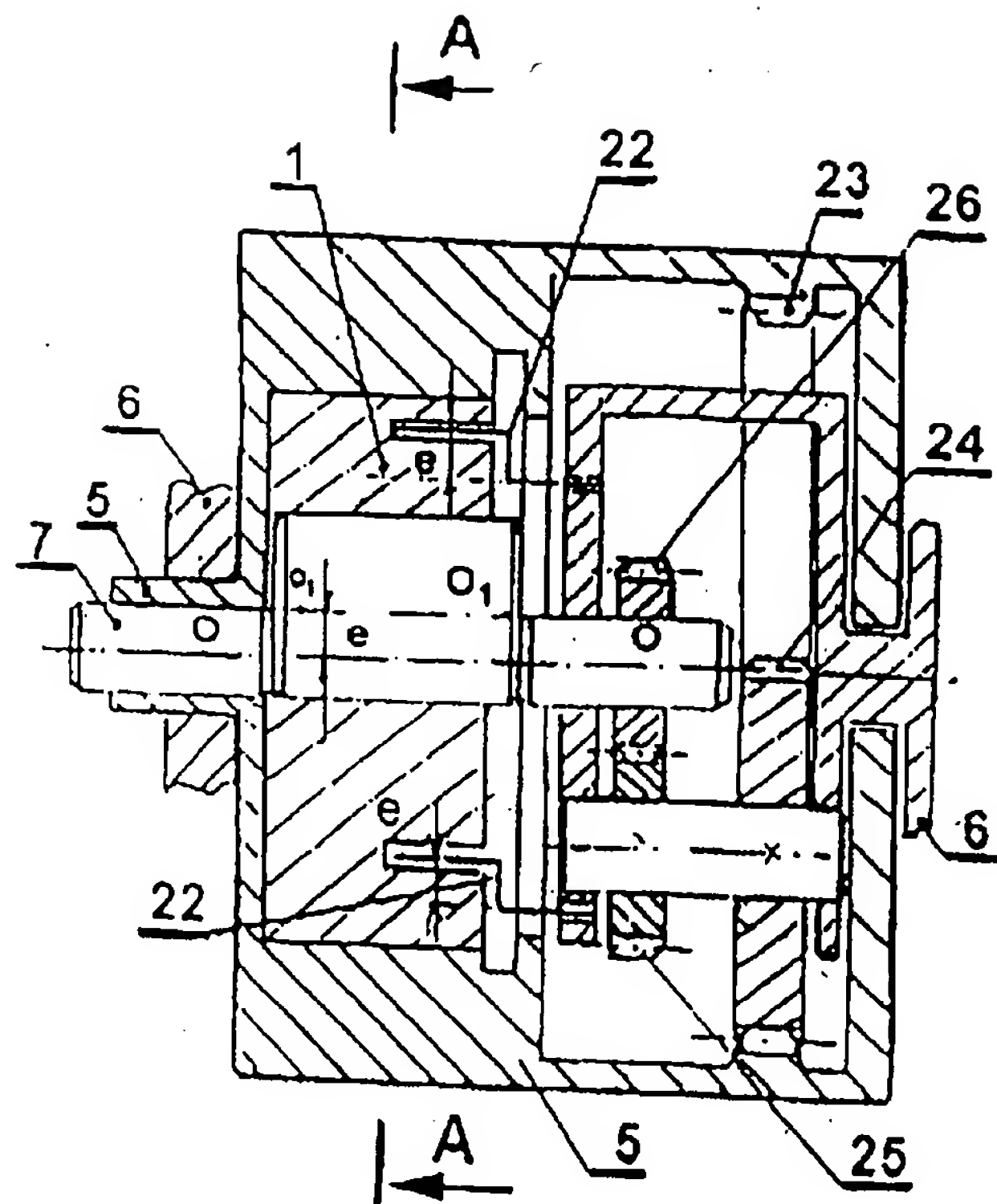
EFFECT: possibility of increasing number of working cycles per revolution of drive shaft. 13 cl, 15 dwg

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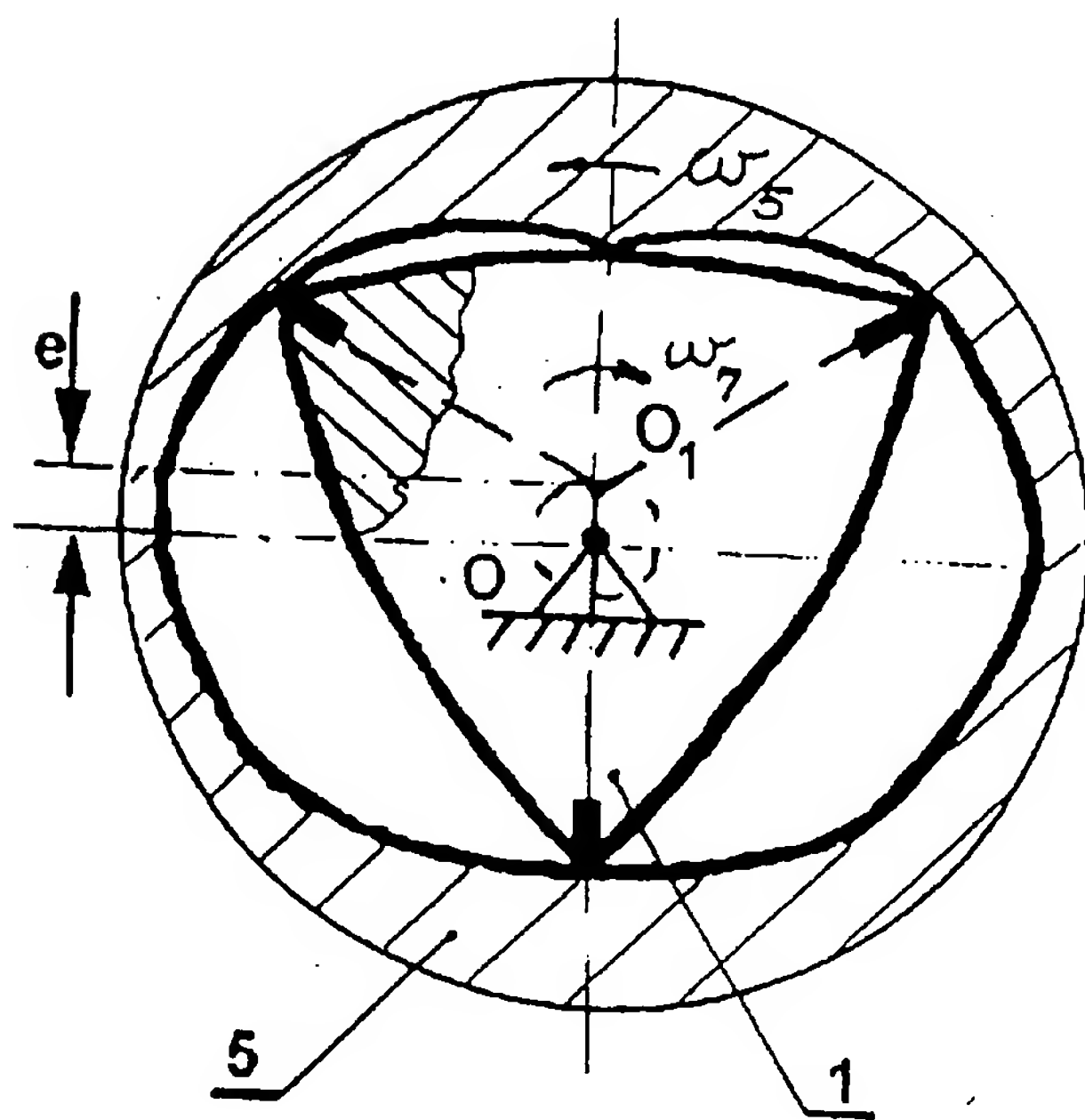


ФИГ.2



ФИГ.3

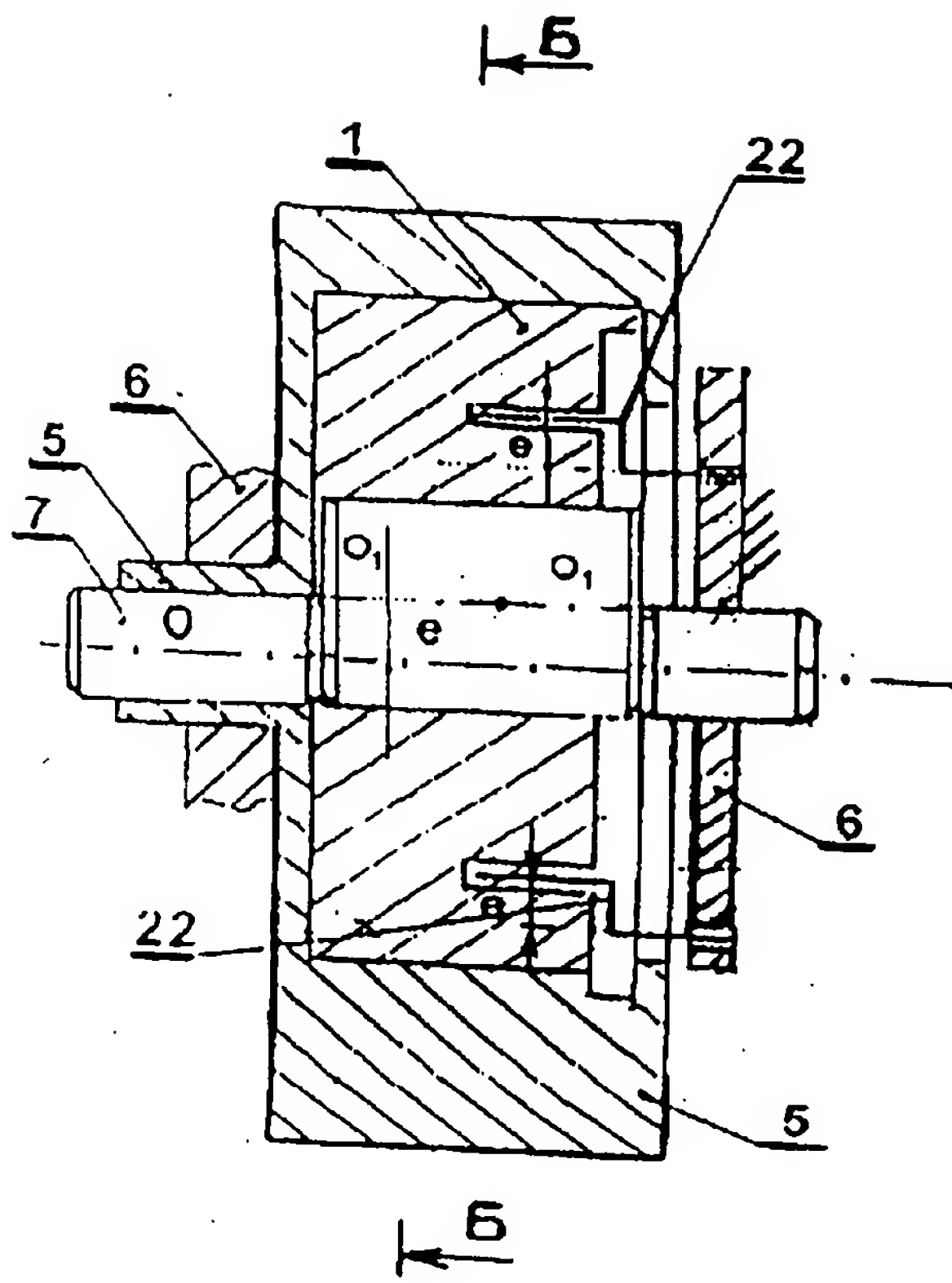
A-A



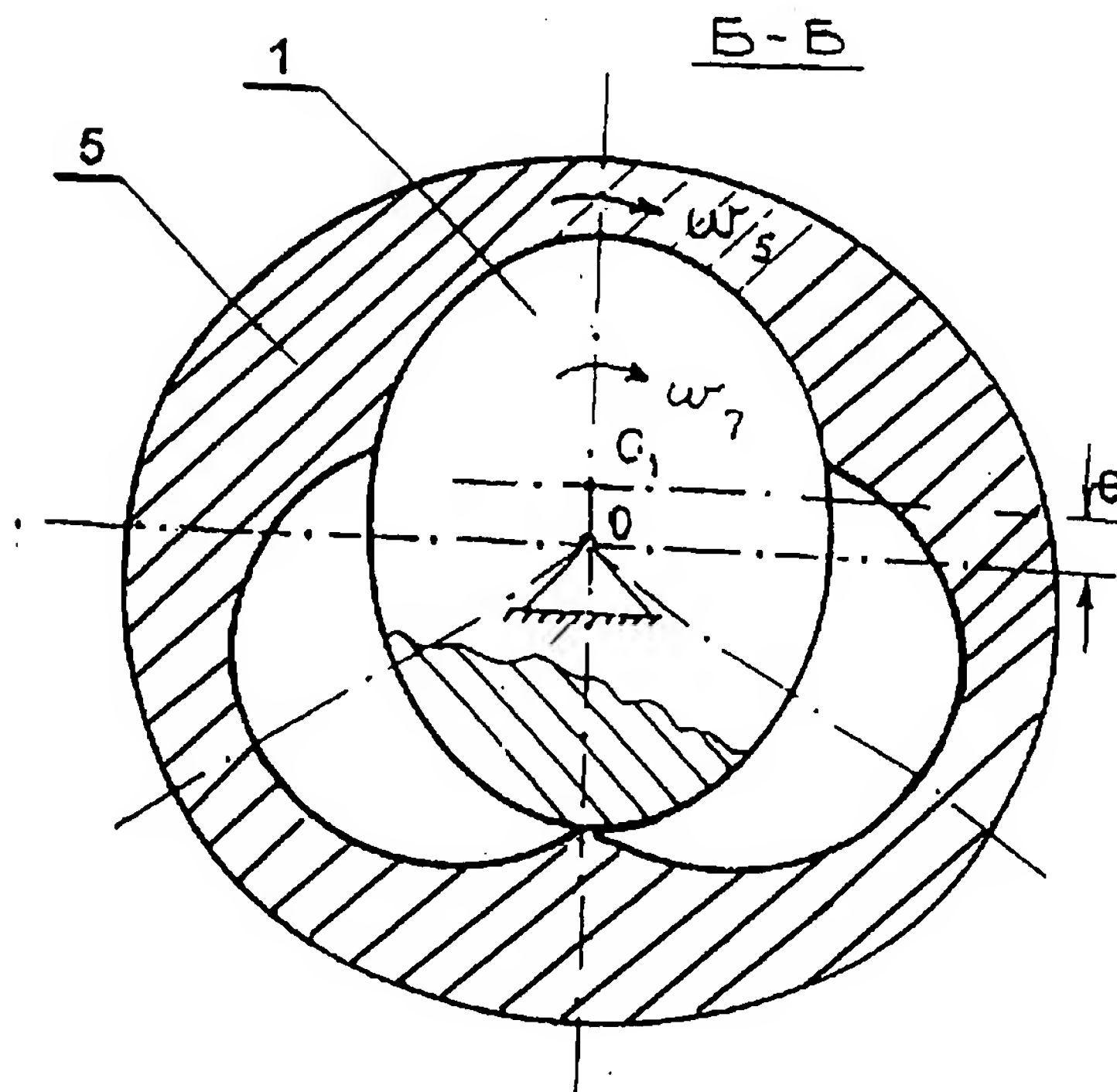
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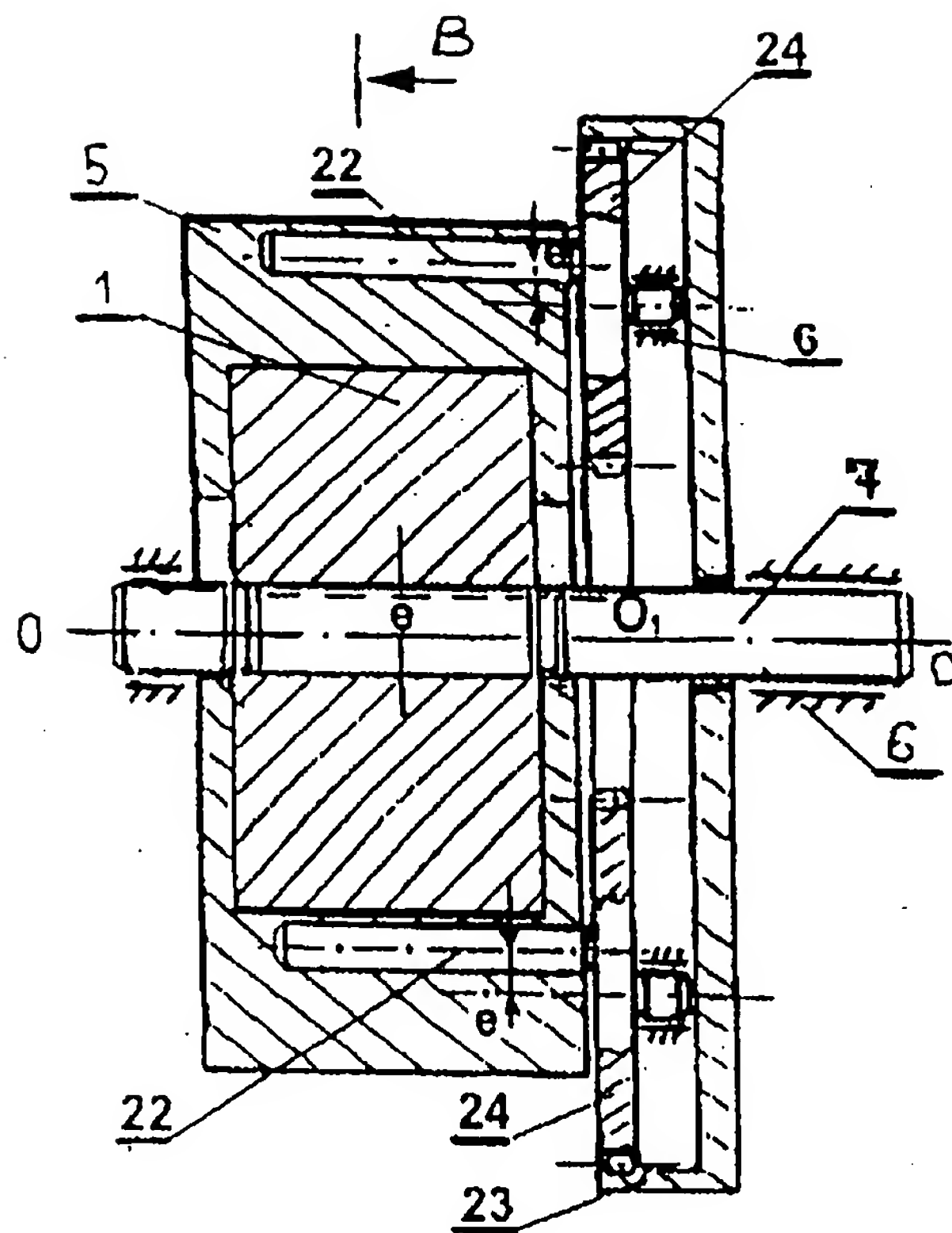
RU 2140018 C1



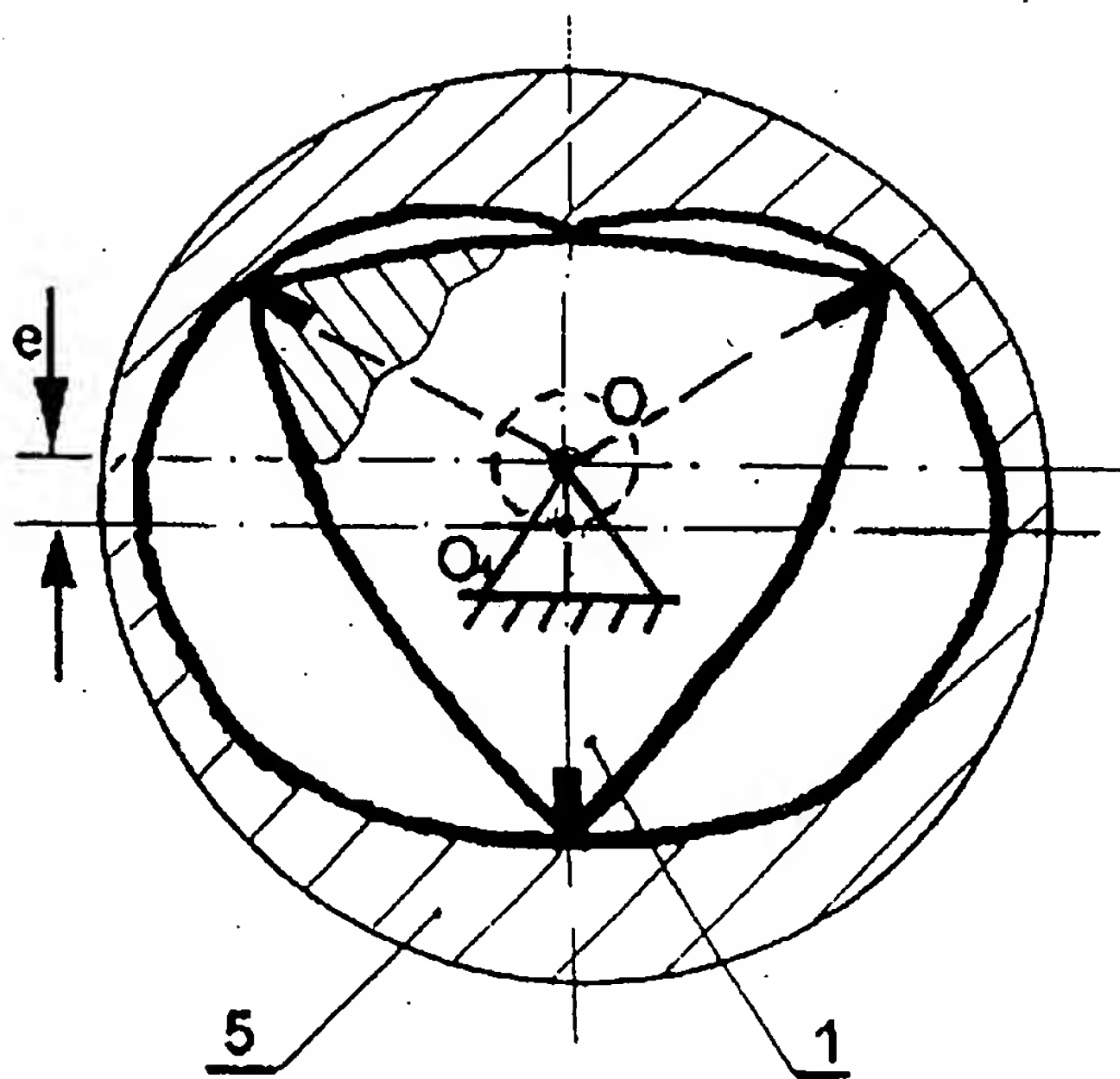
ФИГ.5



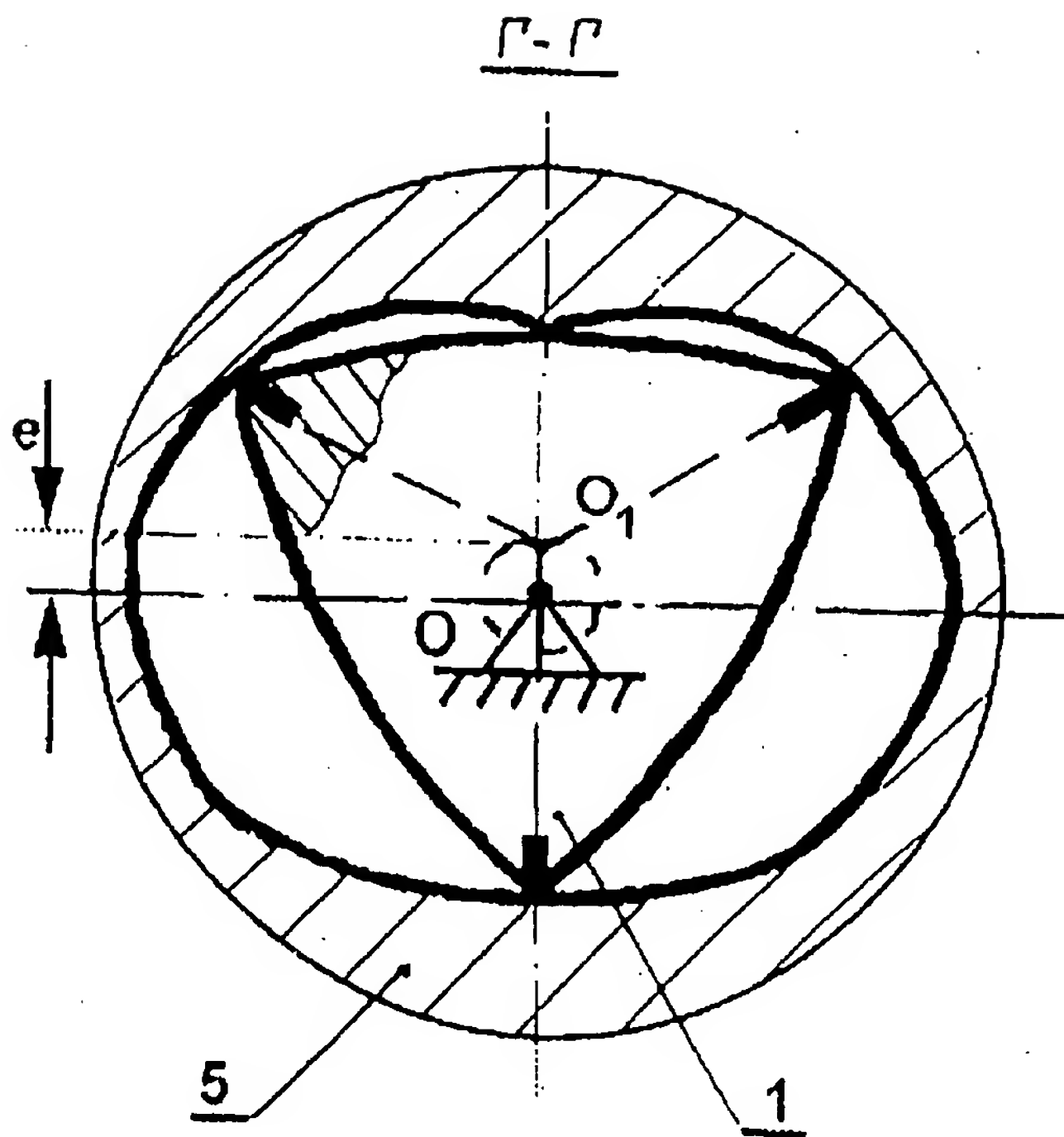
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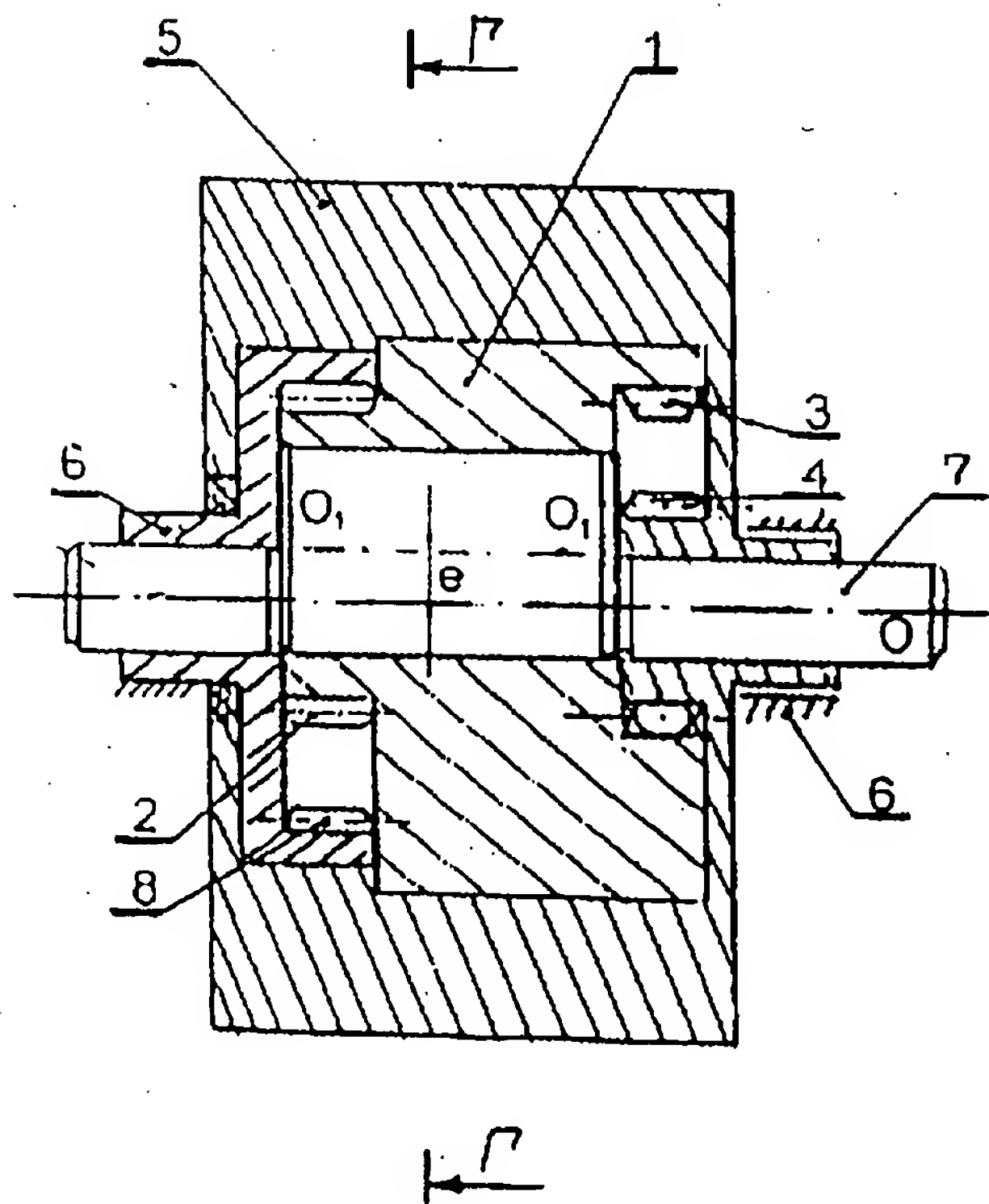
ФИГ.7  
B-B



ФИГ.8



ФИГ.10



ФИГ.9